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 A liquid-crystalline medium of positive dielectric anisotropy, which comprises one or more compounds of the formula I

$$R^1 \longrightarrow H \longrightarrow O \longrightarrow X^1$$

in which

**Patent Claims** 

R<sup>1</sup> is an alkyl or alkenyl radical having 1 or 2 to 7 carbon atoms respectively, and

X<sup>1</sup> is F, OCF<sub>3</sub> or OCHF<sub>2</sub>;

one or more compounds of the formula II

$$R^2$$
  $H$   $O$   $F$   $X^2$   $H$ 

in which

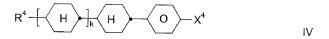
R<sup>2</sup> is an alkyl or alkenyl radical having 1 or 2 to 7 carbon atoms respectively, and

 $X^2$  is F, OCF<sub>3</sub> or OCHF<sub>2</sub>; and

one or more compound(s) of the formula IV

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in which

R<sup>4</sup> is an alkyl or alkenyl radical having 1 or 2 to 7 carbon atoms respectively,

X<sup>4</sup> is F, Cl, OCF<sub>3</sub> or OCHF<sub>2</sub>, and

k is 0 or 1.

2. The medium according to Claim 1, which further comprises one or more compounds of the formula III

$$R^3$$
  $X^3$   $Z^{32}$   $X^3$   $Y^3$ 

15 in which

R<sup>3</sup> is an alkyl or alkenyl radical having 1 or 2 to 7 carbon atoms respectively,

 $Z^{32}$  and, if present,  $Z^{31}$  are each, independently of one another, -CH2-CH2-, -CH=CH- or a single bond,

 $X^3$  is F, OCF<sub>3</sub> or OCHF<sub>2</sub>, and

r is 0 or 1.

 A medium according to Claim 1, which further comprises one or more compounds of the formula V

$$\mathsf{R}^{51} \qquad \mathsf{H} \qquad \mathsf{A}^{51} \qquad \mathsf{A}^{52} \qquad \mathsf{A}^{53} \qquad \mathsf{R}^{52} \qquad \mathsf{V}$$

in which

$$A^{51}$$
 ,  $A^{52}$  and  $A^{53}$   $-$ 

are each, independently of one another,

 $R^{51}$  and  $R^{52}$  are each, independently of one another, an alkyl, alkoxy or alkenyl radical having 1 or 2 to 7 carbon atoms respectively, and

n and m are each, independently of one another, 0 or 1.

4. A medium according to Claim 2, which further comprises one or more compounds of the formula V

$$\mathsf{R}^{51} - \left(\mathsf{H}\right) - \left[ -\left(\mathsf{A}^{51}\right) \right]_\mathsf{m} - \left(\mathsf{A}^{52}\right) - \left]_\mathsf{n} \left(\mathsf{A}^{53}\right) - \mathsf{R}^{52} \quad \mathsf{V}$$

in which

are each, independently of one another.

 $R^{51}$  and  $R^{52}$  are each, independently of one another, an alkyl, alkoxy or alkenyl radical having 1 or 2 to 7 carbon atoms respectively, and

n and m are each, independently of one another, 0 or 1.

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- 5. A medium according to Claim 1, wherein the proportion of compounds of the formula I in the medium as a whole is at least 5% by weight.
- A medium according to Claim 4, wherein the proportion of compounds of the formulae II to V together in the medium as a whole is from 40% to 90% by weight.
- A multibottle liquid-crystal system which comprises a medium according to claim 1.
- An electro-optical device which comprises a liquid-crystalline medium of claim 1.
- A medium according to claim 4, which consists essentially of compounds of the formulae I to V.
- 10. A medium according to claim 1, which exhibits a nematic phase at least down to -20°C and at least above 75°C, a birefringence value of ≤ 0.090 or ≥ 0.100, and a rotational viscosity, γ₁ at 20°C, of 160mPa's.
- 11. A medium according to claim 4 which comprises a concentration of 3-65% compounds of the formula I, 3-40% of compounds of the formula II, 2-50% of compounds of the formula III, 10-50% of compounds of the formula IV and 0-30% of compounds of the formula V.
- A medium according to claim 4, which comprises more than 50% of compounds of the formula I to V.
- A medium according to claim 4 which comprises more than 90% of compounds of the formula I to V.
- 14. A medium according to claim 2, which consists essentially of compounds of the formula I to IV.

15. A medium according to claim 1, wherein, in formula IV, X<sup>4</sup> is F or OCF<sub>3</sub>.